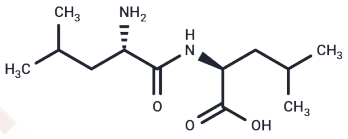
Data Sheet (Cat.No.T65240)

TargetMol

Leu-Leu-OH

Chemical Properties



CAS No. : 3303-31-9

Formula: C12H24N2O3

Molecular Weight: 244.33

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Leu-Leu-OH is a derivative dipeptide of leucine that can be used to study the function of the double leucine motif, is present as a metabolite in the human body, and is also detected in certain bacteria (e.g. Mycoplasma genitalium).
Targets(IC50)	Amino Acids and Derivatives,Endogenous Metabolite
In vitro	In hamster jejunum, glycylsarcosine cannot completely inhibit intact Leu-Leu-OH-mediated absorption, whereas Leu-Leu-OH (L-Leucyl-L-leucine) can completely inhibit intact glycylsarcosine-mediated absorption.[1]

Solubility Information

Solubility	DMSO: < 1 mg/ml (slightly soluble or insoluble) H2O: 10 mg/mL (40.93 mM),when pH is adjusted to 1 with HCl. Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0928 mL	20.4641 mL	40.9283 mL
5 mM	0.8186 mL	4.0928 mL	8.1857 mL
10 mM	0.4093 mL	2.0464 mL	4.0928 mL
50 mM	0.0819 mL	0.4093 mL	0.8186 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Matthews DM, et al. Uptake of L-leucyl-L-leucine and glycylsarcosine by hamster jejunum in vitro. Clin Sci (Lond). 1983 Aug;65(2):177-84.

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